

Automatic Test System (ATS)

Acquisition & Sustainment Processes

Value Stream Analysis

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Overview



- Who Participated
- Objective
- Current State & Constraints
- Ideal State
- Recommendations
- Conclusions



ATS Value Stream Analysis Held 9-13 January 06

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Participants

- HQ USAF/ILMY //ILMM/ILP/ILG
- SAF/AQXA
- HQ AFMC/A4A
- HQ AMC/A44JA
- HQ ACC/A4R/A4M/A4C
- WR-ALC 542 ATSG/CD/GBTC/GBTD;AFMETCAL
- OC-ALC 327 CSSG/GFSL
- OO-ALC 84 CSW/GBMLA
- AAC/ENL
- ASC/ACSSW/CESS
- NAVY PMA-260



Preliminary Objective



- Develop a process that reduces ATS proliferation within the AF
- Define a roadmap for to downsize the ATS inventory to few common family of testers
- Address required changes to requirements, funding and procurement process



Business Case



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Limited commonality and interoperability of Automatic Test Systems currently exists within the AF. The ATS acquisition and sustainment processes need to change in order to provide the best available technology to the War Fighter while improving overall quality, cost, and on-time fielding of requirements.



Key Constraints



- Funding Limitations
- Existing organizational structure
- Outdated policy
- No defined entry point into process



Current State Analysis



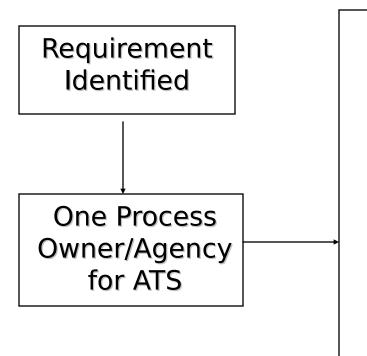
- No single entry point for user to initiate ATS requirements
- No "current state" process exists for acquisition or sustainment
- Major disconnect between the acquisition of ATS and the planning for sustainment
- Weapon Systems Managers investigate their own ATS solutions
- Redundant RDT&E efforts



Ideal State Map



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Funding Approved

DoD core family of testers that work on every platform

DoD common language for all TPS

DISR Compliant

User needs
fielded ontime, on
cost,
meeting all
user
requirement

9



Recommendations



- Establish an ATS Working Group
- Establish Program Element Code (PEC) for common ATS
- Provide an interim family tester(s) solution
- Establish RDT&E dollars for ATS technology development
- Document relationship of DSM/PGM
- Develop and deploy a road show
- Convene a follow-on event to further refine unique depot level proliferation issues
- Identify an ATS Champion within AF leadership



ATS Working Group



- Chaired by 542 ATSG/CC
- Membership to include representatives from:
 - Weapon System
 - MAJCOM/Users
 - DSM
 - PGM
 - Depot
 - AFMETCAL
 - HQUSAF/A4P
- Meet bi-annually
- Focus for discussion/action:
 - Evaluation of roadmaps for modernization of current ATS and future requirements
 - Prioritization of ATS requirements by MAJCOM
 - Review and recommend execution plan for funding
 - Provide updates on technology development
 - Information sharing



Interim Family Tester



- Interim Solution to reducing the proliferation of unique ATS
- Creation of a flexible contract vehicle to acquire a core family of ATS from approved providers
- ATS PGM to determine Contract requirements to include
 - Contractor(s) ability to field core tester(s) for the AF, based on established parameters
 - Commitment of contractor(s) to incorporate
 DISR standards as they are approved



Action Items



Action Plan	ATS Action Items
13-J an-06	

	Haject	20 II	Deliverable				
'	†		Description	Who		Comments	Status
					Date		
	х		Establish IDIQ contract for ATS	HQ AFMC/ A4(ATS PGM)	J ul 07	Takes DSM, PGM and user inputs	
Х			Establish an ATS Working Group	HQ AFMC/ A4(ATS DSM PGM)	Oct 06	To follow ATS worldwide	
	Х		Develop a road show for ATS	SAF/AQXA/A4MY	J ul 06	Deliver to all ALCs, Product Centers, etc.	
Х			Depot level ATS process	HQ AFMC/A4 (ATS DSM PGM)	Feb 06	Hold an RIE to gain an understanding of ATS issues/solutions at the depot level	
		Х	ATS in LCMP	SAF/AQXA	Feb 06	Highlight ATS in existing policy	
	Х		Define requirements document	AF/A4MY	Apr 06	Define the appropriate documentation for initiating an ATS requirement	
	Х		Benchmark engine CIP	AF/A4MY	Mar 06	Brief at ATS worldwide	
	x		Determine current ATS inventory levels	HQ AFMC/A4 (ATS DSM PGM AFMETCAL)	t.b.d.	Needs requirement t.b.d.	



Action Items Cont'd



Action Plan	ATS Action Items
13-J an-06	

3		100	Deliverable				
	4		Description	Who		Comments	Status
					Date		
		Х	Contract measurement tractability and contract w/ calibration TPS	AF/A4MM	Apr 06	Acquire calibration TPS early in acquisition and not during sustainment	
		х	Resolve CICA/ATS policy conflict	SAF/AQXC	Feb 06	Work w/ Greg Snyder	
		Х	MDA for ATS separate from MDS	AF/A4MM	Apr 06	Designate milestone decision authority for ATS acquisition and sustainment issues	
		х	Commonality/Interoperability criteria for all SE acquisitions	AF/A4MM	Apr 06	Revise policy to incorporate OSD criteria	
		Х	Update appropriate ATS regulations	AF A4MM/ SAFAQXA	Apr 06	PMD 9915 ver 1, AFPD 63-2, and AFI 63-201,	
		X	Include ATS language into the Integrated Logistics Assessment Handbook	HQ AFMC/A4A	Mar 06		
		х	Include ATS in DODD 5000.2	DAPWG/ SAFAQXA	t.b.d.		
		X	Investigate SERD process	HQ AFMC/A4A SAFAQXA	Apr 06	Research the viability of bringing back the SERD process for ATS	



Action Items Cont'd



Action Plan	ATS Action Items
13-J an-06	

	jagleri	100	Deliverable				
'	1		Description	Who		Comments	Status
					Date		
	х		Evaluate capabilities of Navy e- CASS for AF	HQ AFMC/A4 (ATS DSM PGM)	On-going	PGM/DSM working through the core relationship w/ Navy	
	х		Evaluate acceleration of DISR standards	HQ AFMC/A4 (ATS DSM PGM)	Mar 06	Complete cost benefit analysis. Update at ATS worldwide	
	х		Establish PEC/PEM for R&D	AF/A4PR	July 06	Replicate engine CIP process	
		Х	Understand ATS funding	AF/A4PR	Mar 06	Gain better understanding of how ATS is funded	
	х		Research the level of ATS investment	AF/A4PR	Mar 06	Query of SPMs on funding of R&D/non-recurring engineering and procurement	
	x		Establish and populate a COP to contain all appropriate ATS information	AF/A4MM	Apr 06		
	х		Establish a COP as a single repository for ATS parametric data	HQ AFMC/A4 (ATS DSM PGM)	Mar 06	Update at ATS w orldw ide council	
	x		Need to understand ATS organization including database, working group, roadmaps	HQ AFMC/A4 (ATS DSM PGM)	Feb 07	Develop CONOPS/Guidance	



Accomplishments



- No one got hurt
- Gained support for interim family tester(s) concept
- Understand need for ATS working group
- Educated community on existence of DSM
- Discovered the need to reaffirm DSM/PGM roles and responsibilities
- Gained a better understanding of Navy ATS process



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